

# Summary of Alberta

CADTH's Canadian Medical Imaging Inventory (CMI) collects data on medical imaging equipment across Canada. The national results are published in a [comprehensive report](#), and this provincial summary consolidates the Alberta data from that report. If you are a CADTH customer and require additional information on the technical characteristics of imaging equipment, please send a request to [cmii@cadth.ca](mailto:cmii@cadth.ca).

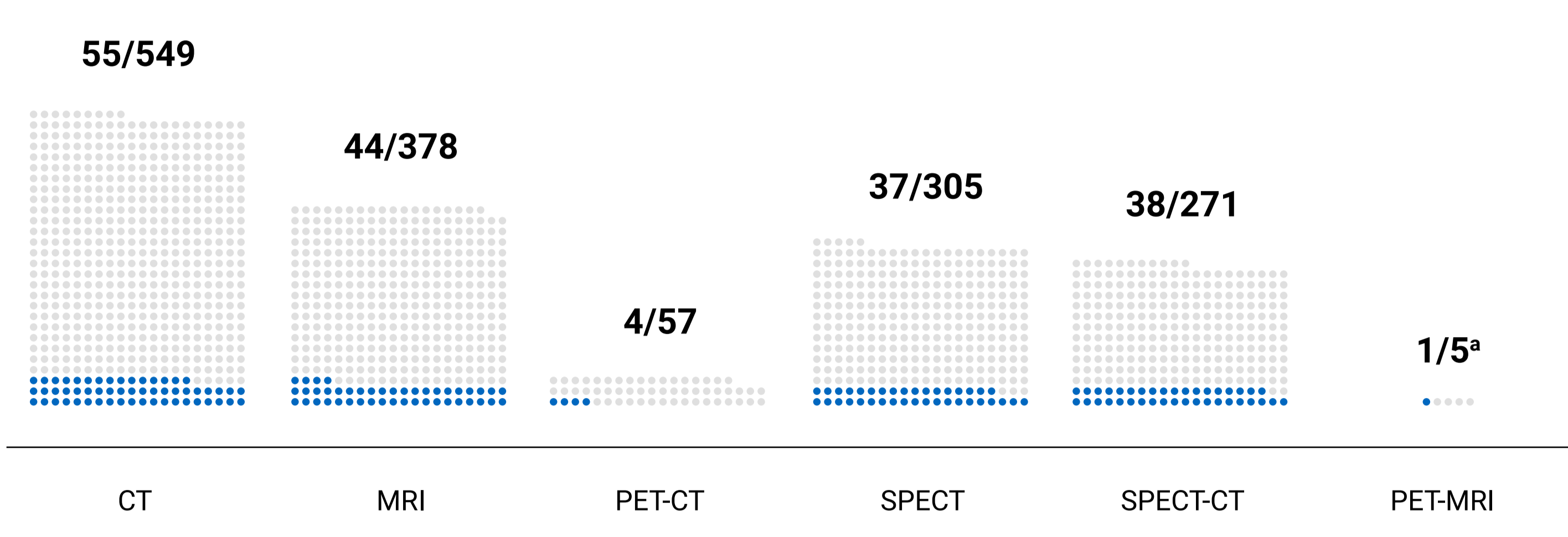


Alberta has approximately 20 rural and remote sites and 49 urban sites that have advanced medical imaging equipment. Alberta has 55 CT units, 3 of which are 320-slice CT units located 1 each at the Chinook Regional Hospital in Lethbridge, the Sturgeon Community Hospital in St. Albert, and the Royal Alexandra Hospital in Edmonton. Alberta has 1 mobile CT unit as part of a stroke outreach team. At least 14 sites reported operating CT units on the weekend, including 5 sites that operate CT units 24 hours a day. Alberta has 44 MRI units, including 1 open-bore MRI machine located at a Canada Diagnostic Centre in Calgary (private facility) and 1 mobile unit shared between multiple facilities and communities (located at Cold Lake Healthcare Centre in Cold Lake, St. Mary's Hospital in Camrose, Westlock Healthcare Centre in Westlock, and Hinton Healthcare Centre in Hinton). Alberta has 4 PET-CT units: 2 located at the Foothills Medical Centre in Calgary and 2 located in Edmonton at the Cross Cancer Institute and the University of Alberta Hospital. Alberta has 1 PET-MRI (out of 5 units in Canada) and uses this solely for research purposes. Alberta has 37 SPECT and 38 SPECT-CT units. At least 1 site operates SPECT and 3 sites operate SPECT-CT on the weekend.

Alberta has the highest adoption rate of peer review programs with 90% to 100% for CT, MRI, and SPECT-CT. The most common exam ordering practice is via fax and paper, followed by automated entry form and centralized booking. Alberta has one of the highest adoption rates for automated entry forms for all advanced imaging modalities across Canada.

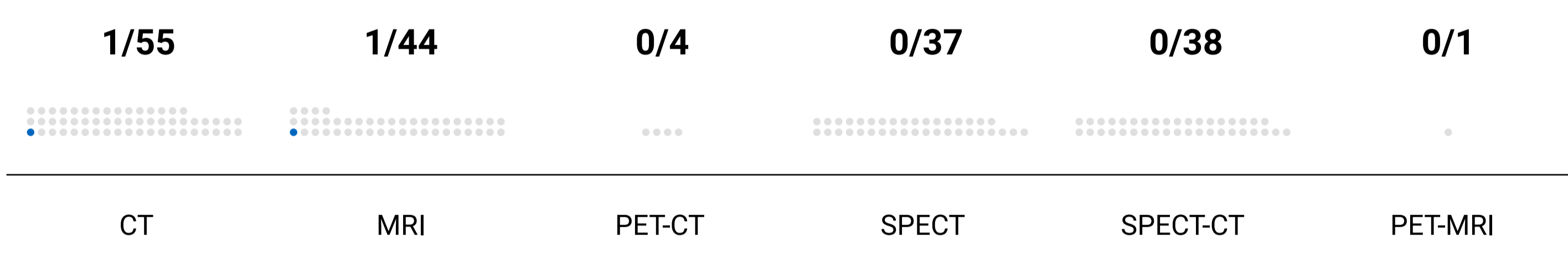
## Machines in Total

Number of imaging units out of national total 2019-2020

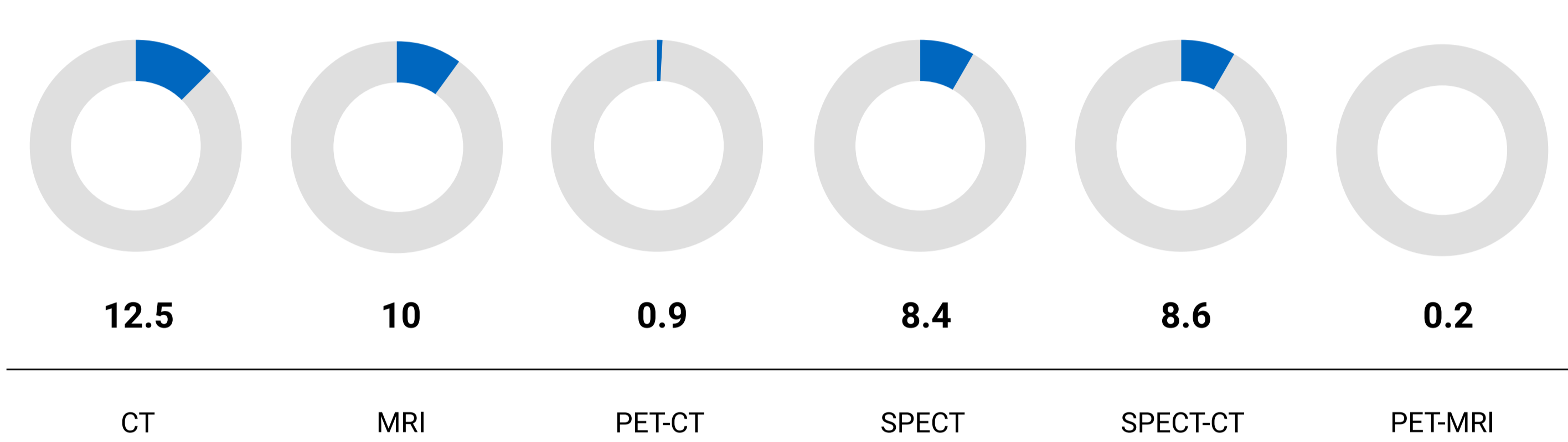


<sup>a</sup>For research purposes only.

## Mobile Equipment

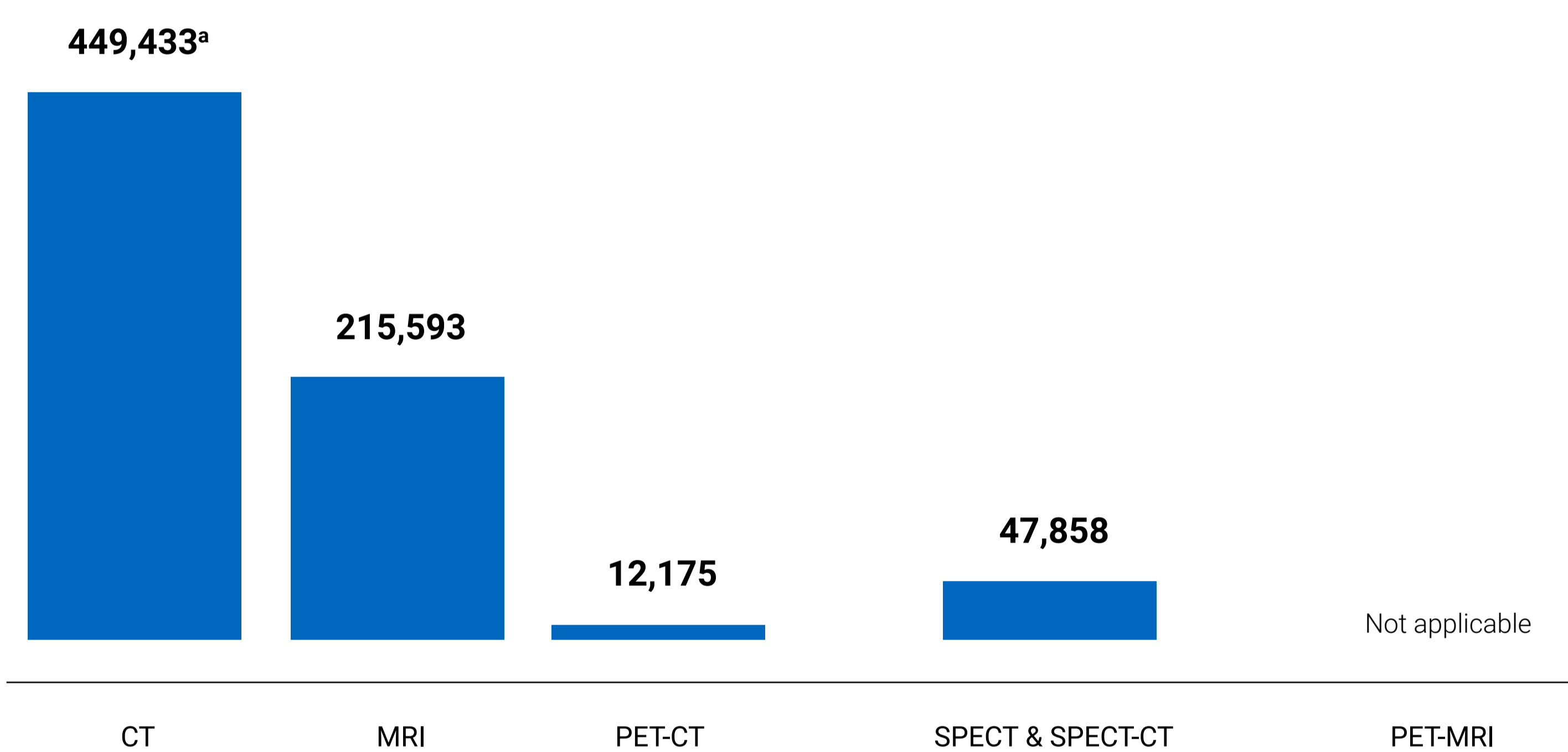


## Units per Million Population Out of Canadian Total



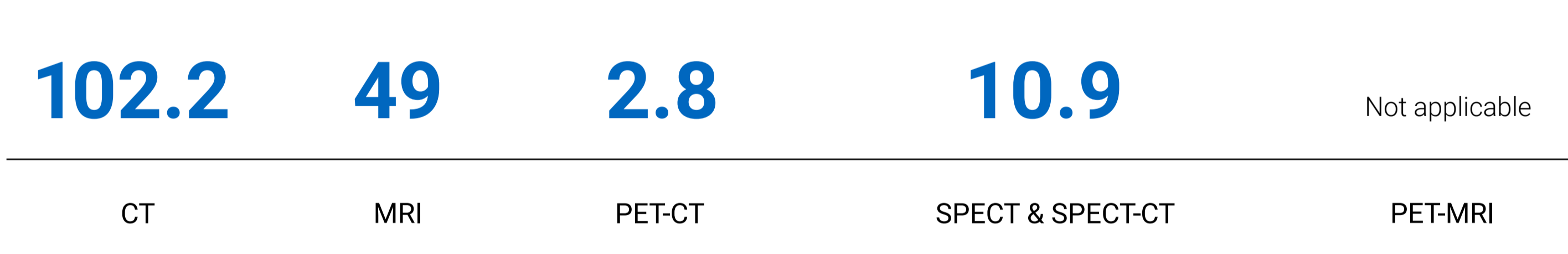
## Exams per Year

Number of exams for each modality in Alberta



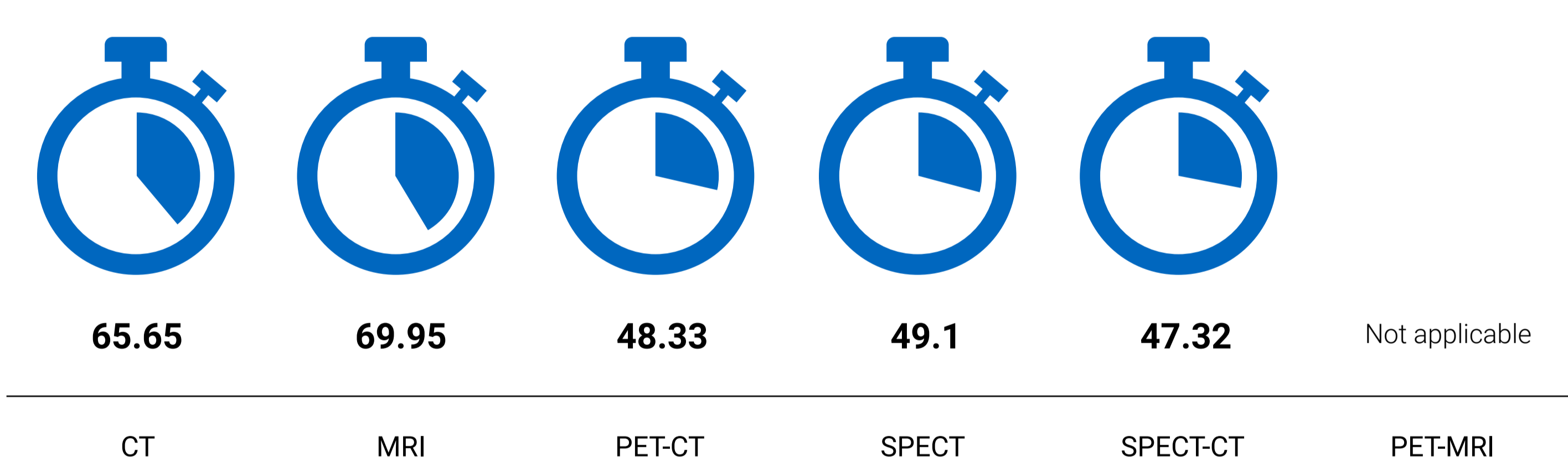
<sup>a</sup>Data from free-standing sites were excluded from the Alberta contribution, but total exams for CT equal 2,364. For the purposes of overall Canadian analysis, data from public and free-standing sites in Alberta have been combined and have been included in the Canadian total, but are presented separately here.

## Exams per 1,000 People

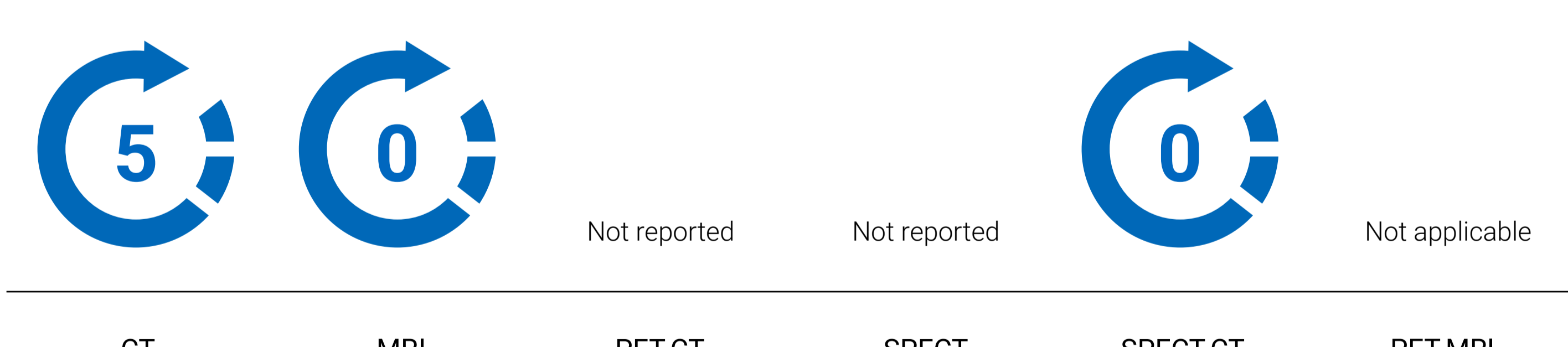


## Hours of Operation

Average hours of operation per week



## Sites Operating 24 Hours a Day



## Sites Operating on Weekends



## Average Age of Units Across Canada (Years)

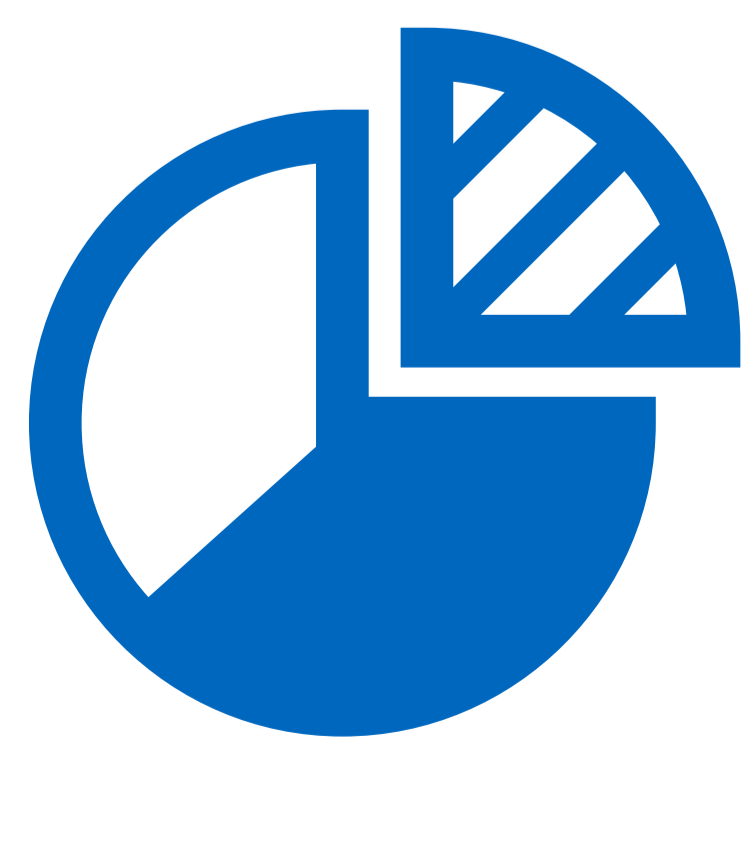
Modality	Average	Oldest	Newest
CT	8.1	23	0
MRI	8.6	20	0
PET-CT	8.2	17	0
SPECT	13.2	33	0
SPECT-CT	6.6	17	0
PET-MRI	5	7	2

### Data Limitations

Data was imputed for a limited number of missing values if no response was obtained. In particular, if the questions regarding the mobility of imaging equipment or weekend and 24-hour availability were left blank, the answer was assumed to be no. Technical information, including the age of machines, was incomplete for some sites. If the age of equipment was not available, it was excluded from the calculation of averages.

By preference, examination data supplied by the validators were reported. Not all sites reported examination data.

Additional details on the methodology used for the collection of this data are available in the 2019-2020 Canadian Medical Imaging Inventory report.



### Disclaimer

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